

Converting Colors

$Y_{xy}(45.6477, 0.5085, 0.4344)$

Have a look what the booklet for
Yxy(45.6477, 0.5085, 0.4344)
contains.

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Color

Yxy(45.7137, 0.5083, 0.4346)

Conversions

Conversions Part 1

Format	Color
Hex	FF9E00
RGB	255, 158, 0
RGB Percent	100%, 62%, 0%
CMY	0.0000, 0.3804, 0.9999
CMYK	0.00, 0.38, 1.00, 0.00
HSL	37°, 100%, 50%
HSV	37°, 100%, 100%
XYZ	53.4659, 45.7137, 6.0061
YIQ	168.9910, 108.5300, -28.5740

Conversions

Conversions Part 2

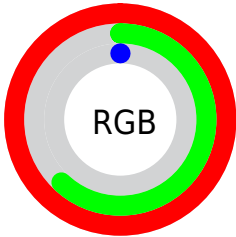
Format	Color
R_{YB}	157, 255, 0
Decimal	16752128
CIE _{Lab}	73.36, 27.58, 77.93
CIE _{LCh}	73, 82.670, 70.514
Yxy	45.7137, 0.5083, 0.4346
Android (android.graphics.Color)	4294942208 (0xFFFF9E00)
YUV	168.9910, -83.3126, 75.4299
Hunter-Lab	67.6119, 22.8327, 42.0615

Details

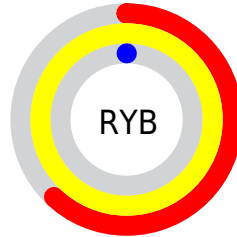
The Yxy color **45.7137, 0.5083, 0.4346** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **15.7722, 0.1659, 0.1172**, and the grayscale version is **40.0550, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.3986, 0.4343, 0.4538**, and **21.5145, 0.5258, 0.4207** is the 20% darker color. If you saturate the color by 10%, you get **45.7122, 0.5083, 0.4346**, and if you desaturate by 10%, it is **49.2296, 0.4938, 0.4390**.

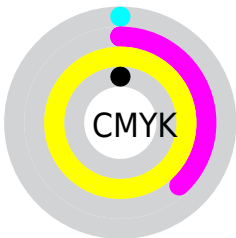
Distribution



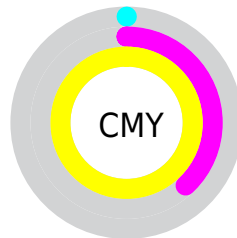
- Red (100%)
- Green (62%)
- Blue (0%)



- Red (62%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (38%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (38%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.7137, 0.5083, 0.4346 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 45.7137, 0.5083, 0.4346 by changing the saturation by 10% instead.

 45.7137, 0.5083,
0.4346

 45.7137, 0.5083,
0.4346

369.6564, 0.4204,
0.3982


 32.0200, 0.5246,
0.4374


 83.7904, 0.4803,
0.4261


 21.3767, 0.5421,
0.4377


 108.9421, 0.4685,
0.4214


 13.3997, 0.5637,
0.4363


 138.6819, 0.4580,
0.4169

 7.7043, 0.5781,
0.4219

 173.3942, 0.4488,
0.4127

 3.9063, 0.5989,
0.4011

 213.4634, 0.4405,
0.4086

 1.6213, 0.6320,
0.3680

 259.2739, 0.4331,

 0.3719, 0.7367,

0.4049

0.2633

311.2101, 0.4264,
0.4014

■ 0.0000, 0.0000,
0.0000

■ 45.7137, 0.5083,
0.4346

■ 45.7137, 0.5083,
0.4346

■ 45.7122, 0.5083,
0.4346

■ 49.2296, 0.4938,
0.4390

■ 53.1044, 0.4760,
0.4385

■ 57.3750, 0.4553,
0.4328

■ 62.0645, 0.4329,
0.4227

■ 67.1928, 0.4099,
0.4093

72.7782, 0.3874,
0.3938

78.8371, 0.3662,
0.3774

85.3849, 0.3465,
0.3607

92.4363, 0.3287,
0.3445

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.7137, 0.5348, 0.3576



45.7137, 0.5083, 0.4346



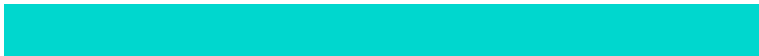
45.7137, 0.4306, 0.5107

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



45.7137, 0.5083, 0.4346



45.7137, 0.1605, 0.3439



45.7137, 0.2582, 0.1837

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



45.7137, 0.5083, 0.4346



15.7722, 0.1659, 0.1172

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



45.7137, 0.1793, 0.1681



45.7137, 0.5083, 0.4346



45.7137, 0.1318, 0.2365

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



45.7137, 0.5083, 0.4346



45.7137, 0.2314, 0.4796



45.7137, 0.1388, 0.1825



45.7137, 0.3724, 0.2254

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.7137, 0.5083, 0.4346



45.7137, 0.3651, 0.5430



45.7137, 0.1388, 0.1825



45.7137, 0.2274, 0.1754

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



45.7161, 0.5083, 0.4346



78.8330, 0.3662, 0.3774



22.1372, 0.5494, 0.2800



16.3142, 0.3750, 0.3844



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.7161, 0.5083, 0.4346



45.7140, 0.5083, 0.4346



87.5647, 0.3985, 0.5217



19.8618, 0.3279, 0.3437



24.1839, 0.5064, 0.4361



2.5657, 0.4938, 0.4461

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



15.7722, 0.1659, 0.1172



15.7692, 0.1659, 0.1172



7.4930, 0.1534, 0.0619



18.5102, 0.2979, 0.3139



8.5048, 0.1667, 0.1202



1.0309, 0.1730, 0.1426

Previews

White Background



This preview shows how the Yxy color 45.7137, 0.5083, 0.4346 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 45.7137, 0.5083, 0.4346 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 45.7137, 0.5083, 0.4346

Background



This preview shows how black text looks on a background with the Yxy color 45.7137, 0.5083, 0.4346.



This preview shows how white text looks on a background with the Yxy color 45.7137, 0.5083, 0.4346.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

45.7137, 0.5083, 0.4346

Protanopia

45.9321, 0.4384, 0.4847

Deuteranopia

45.6198, 0.4725, 0.4630



Tritanopia

45.6108, 0.4088, 0.3188

Trichromacy



Original Color

45.7137, 0.5083, 0.4346

Protanomaly

45.6017, 0.4646, 0.4663

Deuteranomaly

45.4496, 0.4863, 0.4520

Tritanomaly

45.0018, 0.4648, 0.3801

Monochromacy



Original Color

45.7137, 0.5083, 0.4346

Achromatopsia

39.6755, 0.3127, 0.3290

Achromatomaly

40.2723, 0.3994, 0.4023

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.7137, 0.5083, 0.4346 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 158, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 158, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 158, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 158, 0) }
```

Border

The CSS property to change the border of an element to Yxy 45.7137, 0.5083, 0.4346 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 158, 0) }
```

If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(255, 158, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(255, 158, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 158, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 158, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 158,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 45.7137, 0.5083, 0.4346 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 158, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
158, 0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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